

# AAAMPO

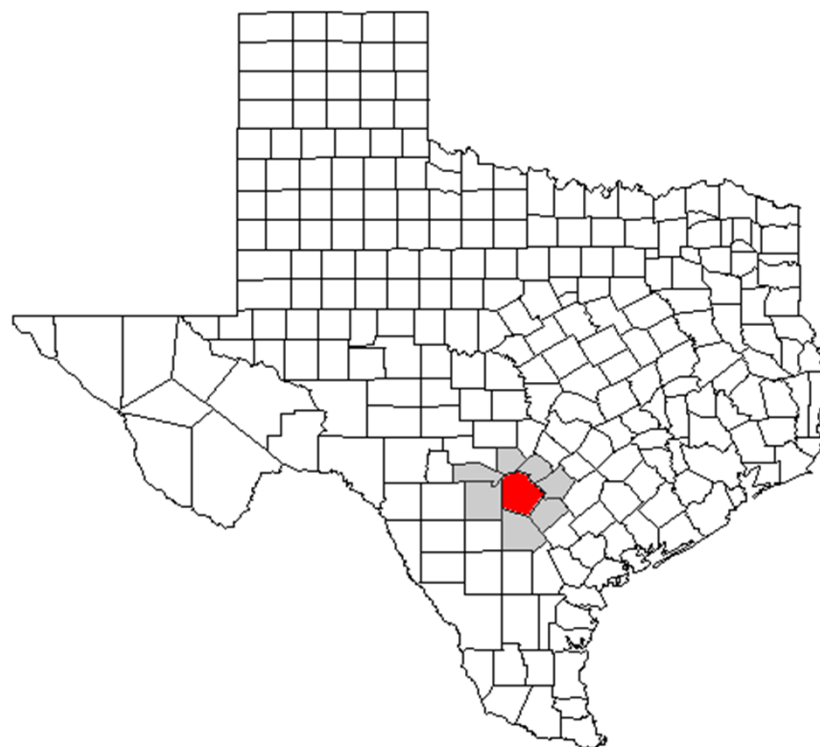
**Congestion Mitigation  
& Air Quality  
Call for Projects/Programs**

Overview Presentation | December 12, 2018

# Nonattainment designation on July 17, 2018

Effective date: **September 24, 2018**

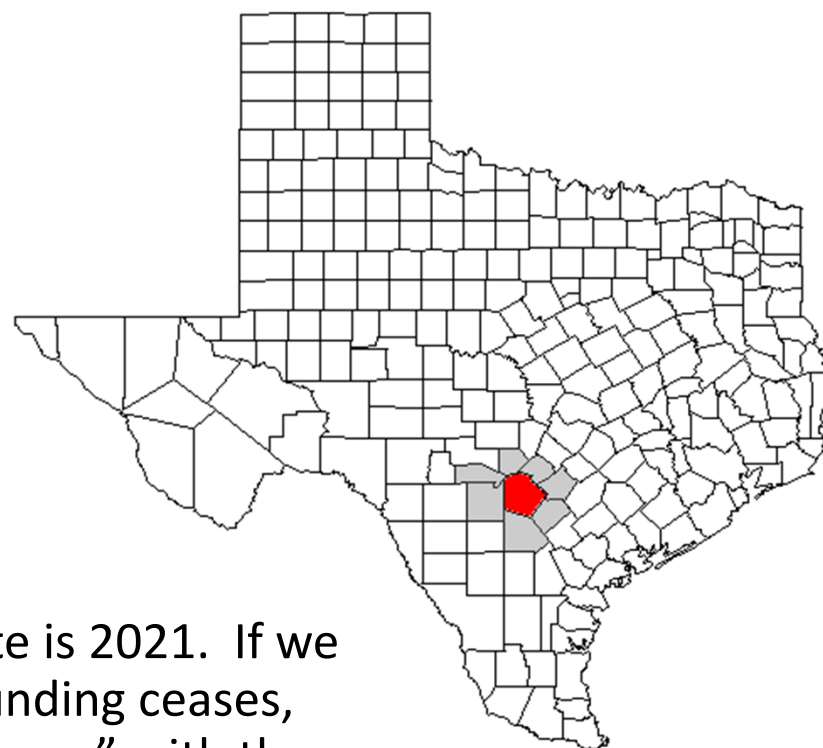
- Bexar County has violated the National Ambient Air Quality Standards and was designated marginal nonattainment for ozone
- Atascosa, Bandera, Comal, Guadalupe, Kendall, Medina, and Wilson were designated attainment/unclassifiable





## Bexar County Designated Nonattainment (Marginal) for Ozone

- Bexar County is eligible to receive Congestion Mitigation and Air Quality (CMAQ) funding
- CMAQ funding is expected to be available beginning in FY 2020
- Allocation is by formula based on population and severity of air quality
- Dallas/Fort Worth, Houston and El Paso already receive CMAQ funding
- By federal regulation, our attainment date is 2021. If we achieve attainment in 2021 our CMAQ funding ceases, even though we remain a “maintenance area” with the nonattainment requirements





# CMAQ Call for Projects/Programs Process: Overview

- Competitive project call; similar in many ways to the MPO's STBG (STP-MM) project call
- Only projects (construction elements only) and programs within Bexar County are eligible
- Estimated \$20M per year is available; three years of funding, \$60M total for FYs 2020-2022, will be programmed
- Reimbursement program and all federal and state rules apply
- Different electronic submittal form for projects and programs



# CMAQ Call for Projects/Programs Process: Overview

- Examples of Eligible Projects
  - Congestion reduction and traffic flow improvements
  - Freight and intermodal
  - Transit improvements
  - Bicycle and pedestrian facilities



# CMAQ Call for Projects/Programs Process: Overview

- Examples of Eligible Programs
  - Diesel engine retrofits and other advanced truck technologies
  - Idle reduction
  - Bicycle and pedestrian programs
  - Public education and outreach activities
  - Transportation management associations
  - Carpooling and vanpooling
  - Carsharing
  - Extreme low temperature cold start program
  - Training
  - Inspection and maintenance programs
  - Alternative fuels and vehicles



# CMAQ Call for Projects/Programs Process: Examples of Ineligible Projects

- Examples of Ineligible Projects
  - Project that add or reduce roadway capacity (travel lanes)



# CMAQ Call for Projects/Programs Process: MPO/TxDOT Workshop

## **MPO/TxDOT Workshop**

- Early in calendar year 2019, the MPO and Texas Department of Transportation will jointly host two informational workshops.
- The two workshops (expected start times of 9:30 a.m. and 1:30 p.m.) will be similar in content and format and will be held on the same day at the MPO Office to provide information and support to agencies submitting projects.
- Workshop attendance is required for all agencies who plan on submitting for this project call.





# CMAQ Call for Projects/Programs Process: Submittals

## Submittals

- Slight differences in submittal requirements for projects and programs (refer to CMAQ process memo)
- Submittal packages will only be accepted electronically
- Can upload additional supporting documentation via the electronic form
- All deadlines are firm
- Incomplete packages will not be accepted



# CMAQ Call for Projects/Programs Process: Project Scoring Criteria

The project scoring criteria for CMAQ funds is as follows:

- 50% reductions in emissions
- 20% cost/benefit in emissions reductions
- 10% congested corridor project
- 10% overmatch at 30% or higher (20% match is the minimum required)
- 10% multiagency partnerships or multimodal projects



# CMAQ Call for Projects/Programs Process: Program Scoring Criteria

The program scoring criteria for CMAQ funds is as follows:

- 50% reductions in emissions
- 20% cost/benefit in emissions reductions
- 10% overmatch at 30% or higher (20% match is the minimum required)
- 20% multiagency partnerships or multimodal programs



# CMAQ Call for Projects/Programs Process: Emissions Reductions

- Technical scoring will weigh heavily towards emissions reductions
- Agencies will use FHWA's CMAQ Emissions Calculator Toolkit spreadsheets to calculate emissions reductions for their projects

Project Type	Pollutants with Most Cost-Effective Reduction
Truck Stop Electrification	All pollutants
Heavy-Duty Vehicle Engine Replacements	NOx, VOCs, PM10, PM2.5
Diesel Retrofits (DOCs, DPFs)	CO, PM10, PM2.5, and VOCs
Transit Service Expansion	NOx, VOCs, CO
Park and Ride	NOx, VOCs, CO
Extreme-Temperature Cold Start	CO and VOCs
Incident Management	CO and VOCs
Intermodal Freight	NOx
Dust Mitigation	PM10

# CMAQ Call for Projects/Programs Process:



## Examples of Emissions Reductions Calculations

**CMAQ Emissions Calculator Toolkit**

### Carpooling

This calculator will estimate the reduction in emissions resulting from carpooling.

**Navigator**

- Carpooling
- Vanpooling

**INPUT** User Guide

(1) What is your project evaluation year?  Reset to Default

(2) Are the pick-up/drop-off locations centralized?  Yes

(2a) What is the average distance participants drive to the central locations?  Enter as roundtrip mileage

(3) Please choose one of the following questions to answer:

(3a) What is the population of commuting workers?

(3b) What is the number of vehicles participating in the carpool program?

Default values based on national averages

(4) What share of commuters participate in pool?  Input as a percentage

(5) On average, how many passengers are there per carpool vehicle?  Driver not included

(6) What is the average commute distance?  Enter as roundtrip mileage

**OUTPUT** Calculate C

**EMISSION REDUCTIONS**

Pollutant	Total (kg/day)
Carbon Monoxide (CO)	0.000
Nitrogen Oxide (NOx)	0.000
Particulate Matter <10 µm (PM <sub>10</sub> )	0.000
Particulate Matter <2.5 µm (PM <sub>2.5</sub> )	0.000
Volatile Organic Compounds (VOC)	0.000

**Navigator**

- Transit Bus Service and Fleet Expansion
- Model Year Distribution
- Fuel Type Distribution
- Road Type Distribution

### Transit Bus Service and Fleet Expansion

This calculator will estimate the reduction in emissions resulting from expanding transit bus service and fleets and associated mode shift from passenger vehicles, including projects such as new routes, new schedules, and new vehicles. Users are recommended to forecast activity by mode with an external travel demand model.

**INPUT** User Guide

(1) What is your project evaluation year?  Reset to Default Values

(2a) Enter the estimated vehicle miles traveled by transportation mode before and after the transit project is completed (users must fill in all four VMT estimates)

Mode	Before	After
Transit Bus Miles Traveled	<input type="text" value="Input"/>	<input type="text" value="Input"/>
Traveled	<input type="text" value="Input"/>	<input type="text" value="Input"/>

(2b) Select a time aggregation and fill in default days operated by transportation mode or supply your own estimates

Time Aggregation	Days Operated Per Year
<input type="text" value="Select"/>	<input type="text" value="0"/>
<input type="text" value="Select"/>	<input type="text" value="0"/>

(3) If desired, change the activity allocations of your transit bus fleet from national defaults before and/or after project completion (edit any or all that apply) Fill in Default Days Operated

**Years**

**Allocations of Fuel Types**

**Allocations of Road Types**

**OUTPUT** Calculate Output

**FLEET PERFORMANCE**

Activity for Transit Buses:  **Change in Annual Transit Bus Miles Traveled**

Activity for Passenger Vehicles:  **Change in Annual Passenger Vehicle Miles Traveled**

**EMISSION REDUCTIONS**

Pollutant	Total (kg/day)
Carbon Monoxide (CO)	0.000
Particulate Matter <2.5 µm (PM <sub>2.5</sub> )	0.000
Particulate Matter <10 µm (PM <sub>10</sub> )	0.000
Nitrogen Oxide (NOx)	0.000
Volatile Organic Compounds (VOC)	0.000

To access the toolkit please visit:

[https://www.fhwa.dot.gov/environment/air\\_quality/cmaq/toolkit/index.cfm](https://www.fhwa.dot.gov/environment/air_quality/cmaq/toolkit/index.cfm)



# CMAQ Call for Projects/Programs Process: Public Involvement Process

## **Public Involvement Process**

- The MPO believes in the proactive involvement of citizens, affected public agencies, representatives of transportation agency employees, private providers of transportation, and other interested parties in the development and updates of transportation plans and programs.
- The MPO commits to public outreach that meets or exceeds its adopted Public Participation Plan. In addition to a public meeting held in Bexar County, an online public input opportunity will also be available.



# CMAQ Call for Projects/Programs Process: Project Selection Process

## Project Selection Process

- The MPO's Technical Advisory Committee will develop an initial funding recommendation
- The Technical Advisory Committee will consider the
  - calculated emissions reductions
  - implementing agency's priorities
  - project readiness
  - public input
  - technical score



# CMAQ Call for Projects/Programs Process: Project Selection Process, continued

## **Project Selection Process, continued**

- In addition to the funding recommendation, all submitted projects will be presented to the Transportation Policy Board and will include
  - calculated emissions reductions
  - technical score
  - public comments
  - implementing agency priorities
  - project readiness
  - any additional notations
- The Transportation Policy Board will select the CMAQ funded projects and action will be taken to include the projects in the Transportation Improvement Program and Metropolitan Transportation Plan





# CMAQ Call for Projects/Programs Process: Schedule

**2018**

**October**

Presentations  
to TAC and TPB

**November**

Presentations  
to TAC,  
Executive  
Committee,  
BMAC and  
PMAC



**December**

TAC and TPB Action on Call for  
Projects Schedule and Process  
  
CMAQ Call for Projects begins  
December 12

**2019**

**Jan-Feb**

Joint AAMPO/  
TxDOT CMAQ  
Workshop

**April**

CMAQ  
Submittals  
due April 1

**May**

CMAQ  
Project  
Scoring

**June**

Public  
meeting  
and online  
input

**July - August**

Project  
selection and  
approval as  
TIP and MTP  
amendments

# AAMPO

## Contact Information

Jeanne Geiger

AAMPO Deputy Director

[geiger@alamoareampo.org](mailto:geiger@alamoareampo.org) | 210-230-6904



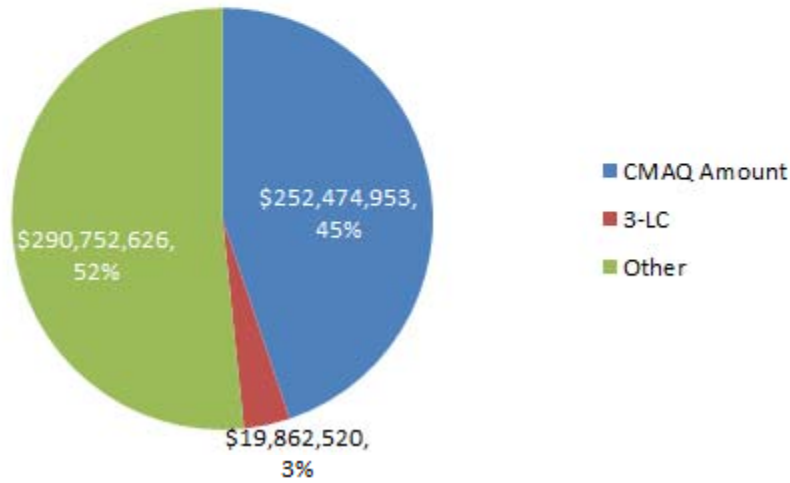
# FY 2019-2022 TIP CMAQ Funding Analysis



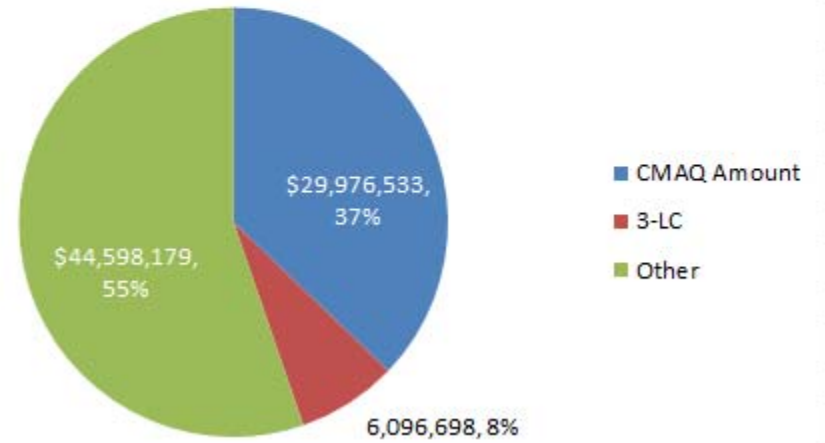
2					
3	District	CMAQ Amount	3-LC	Other	Total
4	Fort Worth	\$29,976,533	\$6,096,698	\$44,598,179	\$80,671,410
5		40%	8%	52%	100%
6					
7	Dallas	\$252,474,953	\$19,862,520	\$290,752,626	\$563,090,099
8		45%	4%	52%	100%
9					
10	Houston	\$263,537,958	\$0	\$0	\$263,537,958
11		100%	0%	0%	100%
12					
13	Combined	\$545,989,444	\$25,959,218	\$335,350,805	\$907,299,467
14					

F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

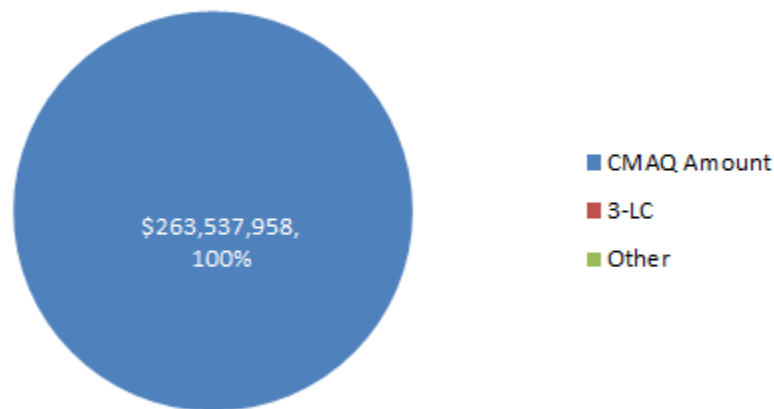
### Dallas Leveraging



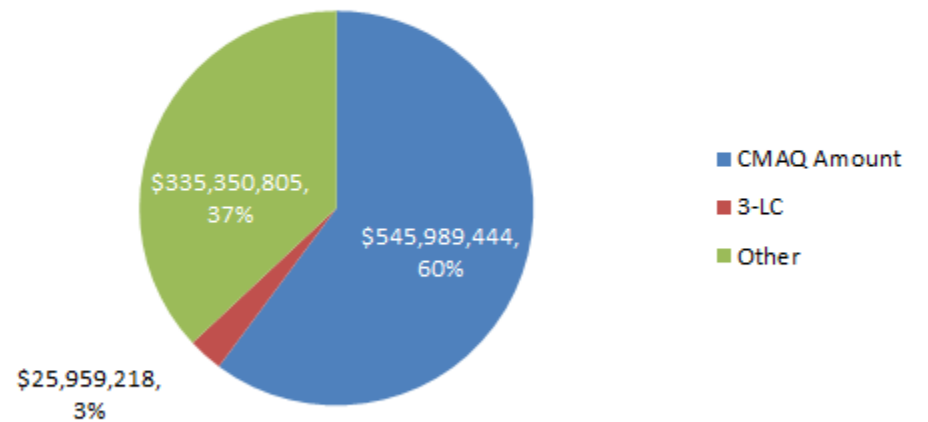
### Fort Worth Leveraging



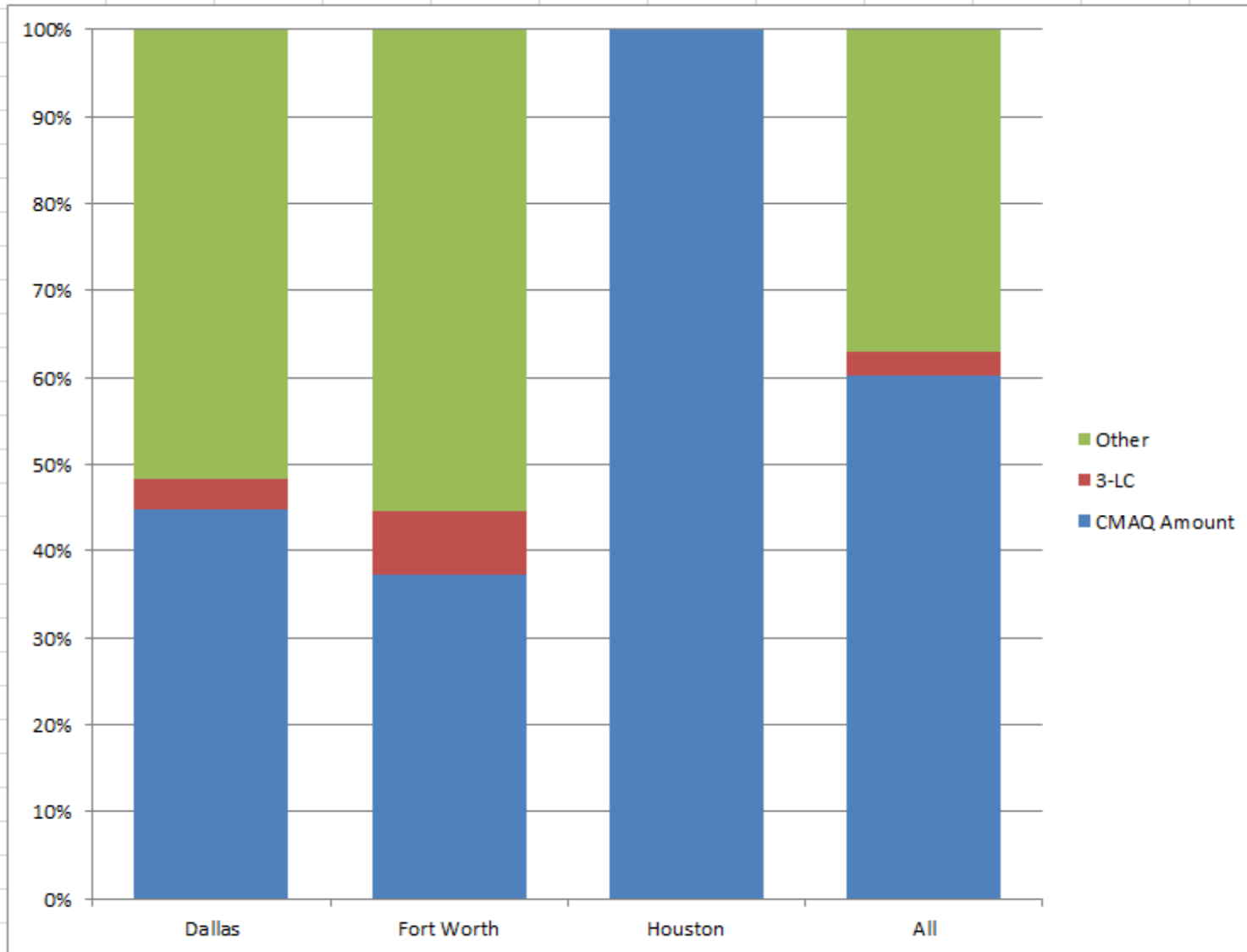
### Houston Leveraging



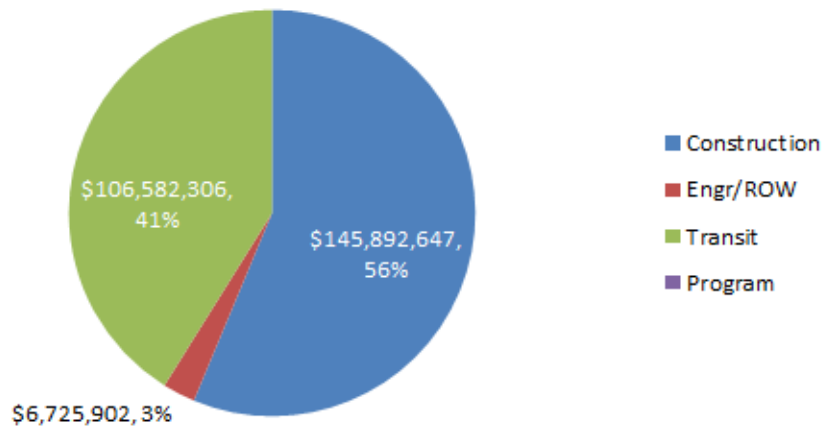
### Combined Leveraging



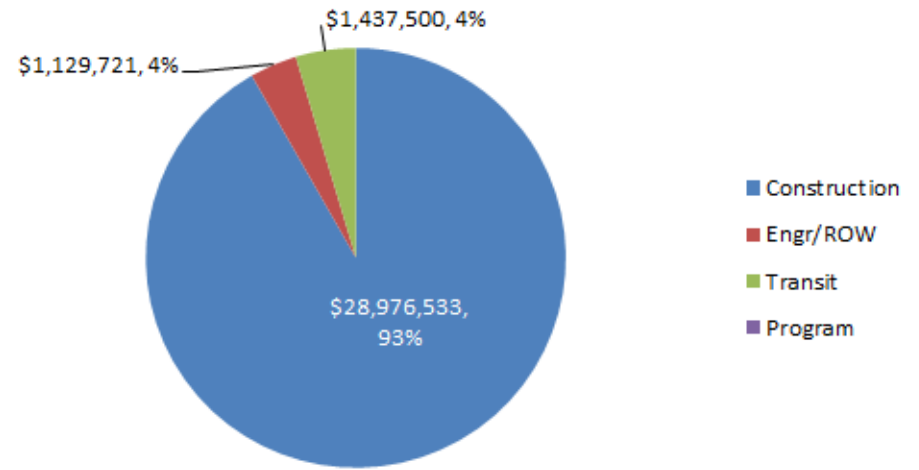
# CMAQ Leveraging by TxDOT District



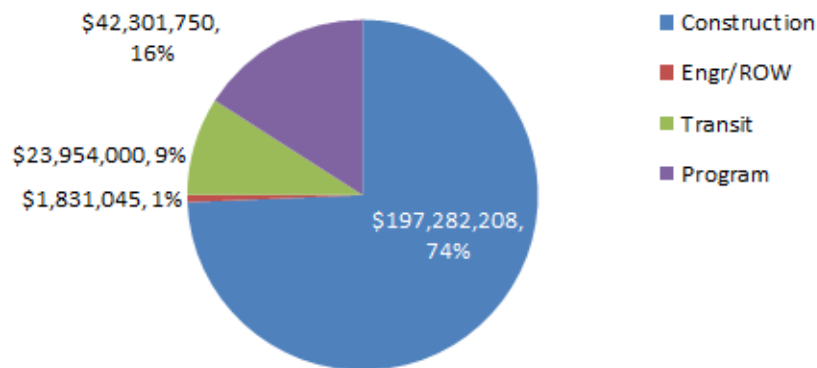
### Dallas District CMAQ Funding Distribution



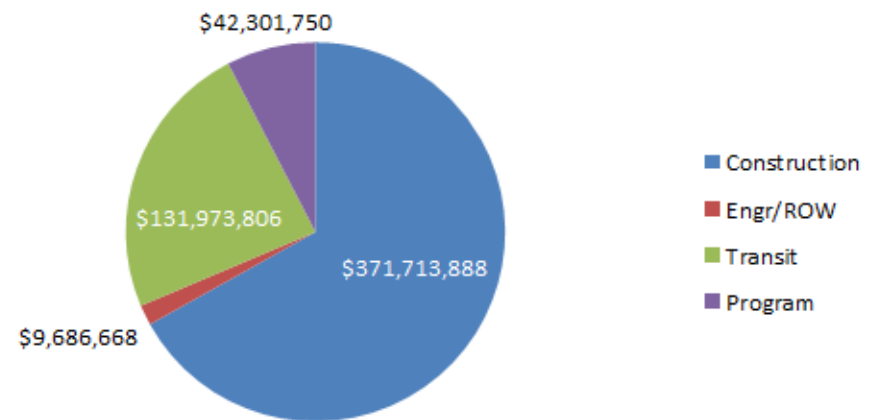
### Fort Worth CMAQ Funding Distribution



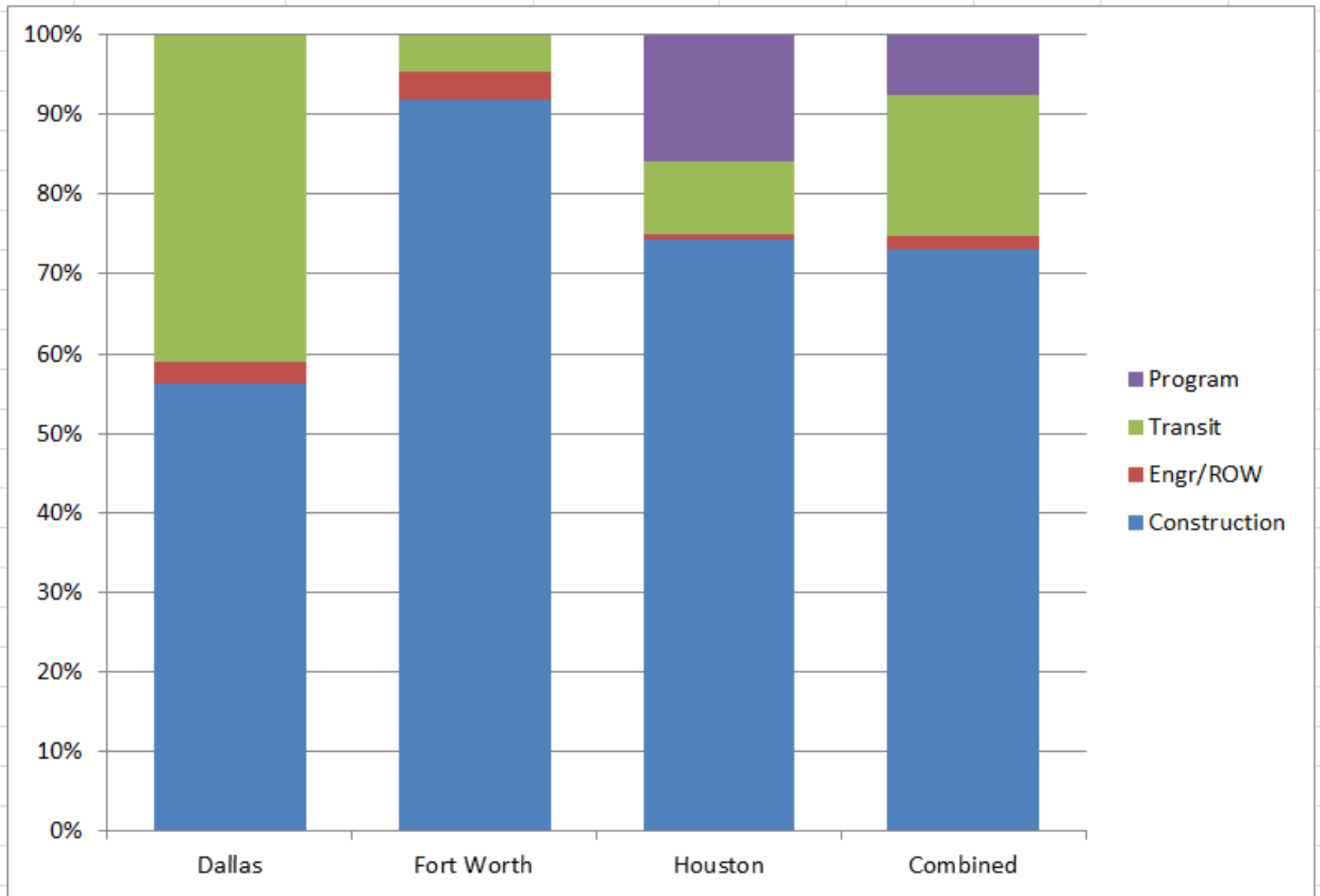
### Houston District CMAQ Funding Distribution



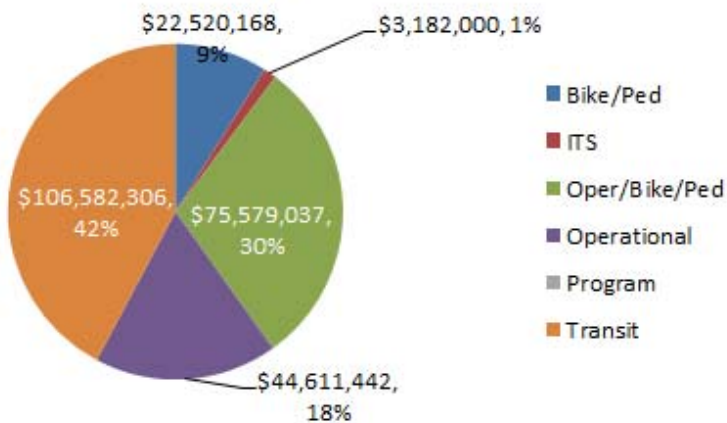
### Combined CMAQ Funding Distribution



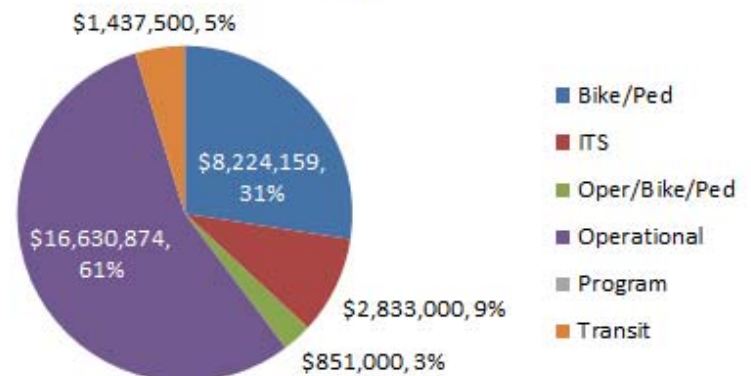
# CMAQ Funding Distribution by TxDOT District



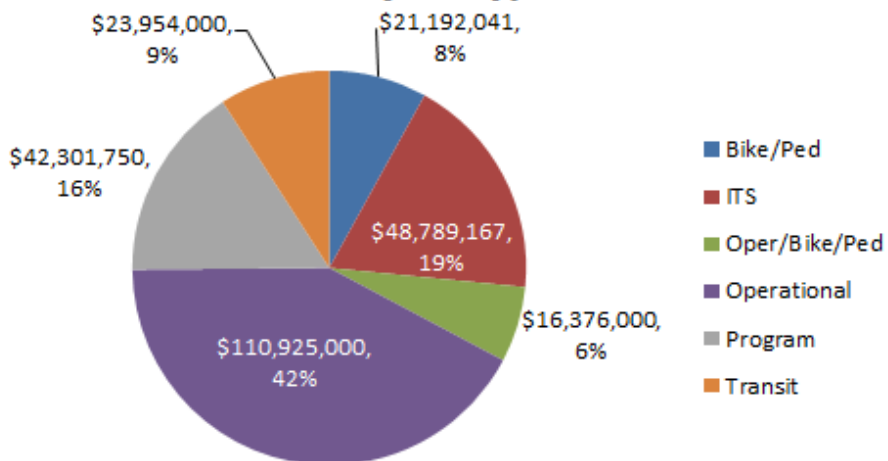
### Dallas CMAQ Amount by Project Type



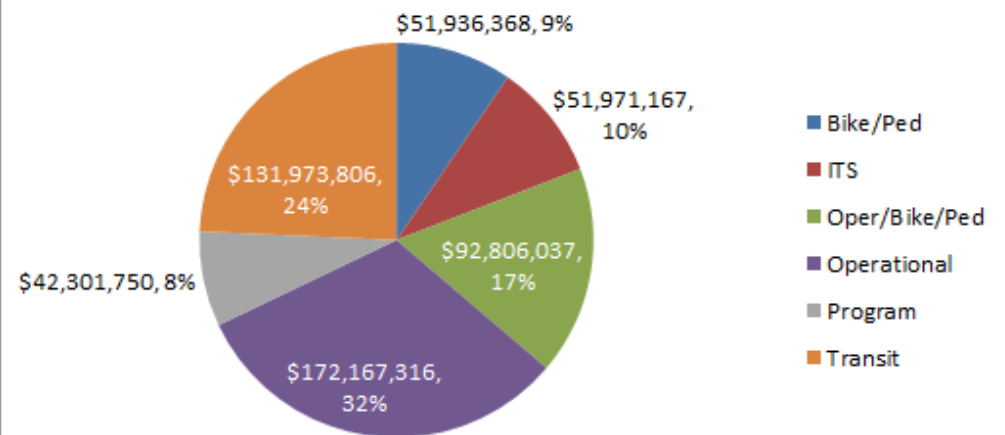
### Fort Worth CMAQ Amount by Project Type



### Houston CMAQ Amount by Project Type



### Combined CMAQ Amount by Project Type





# CMAQ Funding by Project Type

